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**Pharmaceutical with stabilised granulocytes colony stimulating factor -
contains surfactant, saccharide, protein or high mol. wt. cpd. as
stabiliser**

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Patent Family:

| Patent No | Kind | Date | Applicat No | Kind | Date | Week |
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Patent Details:

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Abstract (Basic): DE 3723781 A

A pharmaceutical contains stabilised G-CSF (granulocytes colony stimulating factor) as active ingredient and at least one surfactant, saccharide, protein or a high mol. wt. cpd. Pref. the amt. of surfactant or saccharide is 1-10000 pts. wt. Pref. pt. wt. G-CSF. Pref. the surfactant is non-ionic (esp. a sorbitan ester glycerine ester, poly-glycerine ester, polyoxyethylene sorbital ester, polyoxyethylene-glycerine ester or polyethylene glycol ester of an aliphatic acid, polyoxyethylene polyoxypropylene alkyl ether, a hardened polyoxyethylated castor oil, a polyoxyethylated bees wax deriv. a polyoxyethylene lanoline deriv. or an aliphatic polyoxyethylene acid aride), anionic (esp. an alkylsulphate or alkylsulpho succinyl ester salt) or natural (esp. lecithin, sphingophospholipid or an ester of an aliphatic acid with sucrose).

USE/ADVANTAGE - G-CSF can be used to treat various infectious diseases, but is unstable and highly sensitive to changes in the environment e.g. temp., humidity, oxygen or UV light. The invention stabilises the G-CSF and protects it completely against loss of activity.

Title Terms: PHARMACEUTICAL; STABILISED; GRANULOCYTE; COLONY; STIMULATING; FACTOR; CONTAIN; SURFACTANT; SACCHARIDE; PROTEIN; HIGH; MOLECULAR; WEIGHT ; COMPOUND; STABILISED

Derwent Class: A96; B04

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